

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Original) A precleaner arrangement for separating a portion of entrained material from
air flow air entering an engine air cleaner; the precleaner arrangement comprising:
 - (a) a vane structure arrangement including at least a first, adjustable, air deflection vane;
 - (i) the first, adjustable, air deflection vane having a flexible portion deflectable between a first orientation and a second orientation;
 - (ii) the flexible portion having a memory bias toward the first orientation; and,
 - (iii) the flexible portion being configured to deflect toward the second orientation, in response to a sufficient air flow rate increase through the precleaner arrangement, in use.
2. (Original) A precleaner arrangement according to claim 1 wherein:
 - (a) the vane structure arrangement comprises a plurality of adjustable air deflection vanes positioned around a central hub;
 - (i) each adjustable air deflection vane having a flexible portion deflectable between a first orientation and a second orientation;
 - (ii) each flexible portion having a memory bias toward a first orientation; and,
 - (iii) each flexible portion being configured to deflect toward the second orientation in response to a sufficient air flow rate increase through the precleaner arrangement, in use.

3. (Original) A precleaner arrangement according to claim 2 wherein:
 - (a) each adjustable air deflection vane comprises:
 - (i) a flexible member; and,
 - (ii) a rigid structural member.
4. (Original) A precleaner arrangement according to claim 3 wherein:
 - (a) the vane structure arrangement includes at least three adjustable air deflection vanes.
5. (Original) A precleaner arrangement according to claim 4 wherein:
 - (a) the vane structure has a first axial total vane length X and a first vane perimeter size Y;
 - (b) the precleaner being configured such $X < Y$.
6. (Original) A precleaner arrangement according to claim 5 wherein:
 $X < 0.7Y$
7. (Original) A precleaner arrangement according to claim 6 wherein:
 $X < 0.3Y$
8. (Original) A precleaner arrangement according to claim 4 wherein:
 - (a) the vane structure includes a perimeter rim:
 - (i) each adjustable air deflection vane being secured in extension between the central hub and the perimeter rim; and
 - (ii) a perimeter edge portion of each flexible portion being spaced from the perimeter rim, to define a flexible, downstream, outer ear in the associated flexible portion.
9. (Original) A precleaner arrangement according to claim 8 wherein:
 - (a) each adjustable air deflection vane has: a lead, upstream, edge; and, a tail, downstream, edge; and

- (b) the flexible member has a concave upstream surface in extension between the lead edge and the tail edge, when in the first orientation.
- 10. (Original) A precleaner arrangement according to claim 9 having:
 - (a) a projection angle A between the lead upstream edge of each adjustable air deflection vane and a tail edge of a next adjacent air deflection vane of at least 17°.
- 11. (Original) A precleaner arrangement according to claim 8 wherein:
 - (a) the vane structure arrangement is secured to a perimeter housing structure having a dust drop tube.
- 12. (Original) An air cleaner comprising:
 - (a) a precleaner arrangement comprising a vane structure arrangement including a plurality of adjustable, air deflection vanes;
 - (i) each adjustable air deflection vane having:
 - (A) a flexible member; and,
 - (b) a rigid structural member;
 - (ii) each flexible member being deflectable between a first orientation and a second orientation;
 - (iii) each flexible member having a memory bias toward the first orientation; and
 - (iv) the flexible member being configured to deflect toward the second orientation, in response to a sufficient air flow rate increase through the precleaner arrangement, in use; and
 - (b) a main air cleaner positioned to receive air from the precleaner arrangement;
 - (i) the main air cleaner having a serviceable air filter element therein.
- 13. (Original) An air cleaner arrangement according to claim 12 wherein:
 - (a) the serviceable air filter element comprises z-filter media.

14. (Currently Amended) A method of operating a precleaner to separate a portion of entrained material from air flow entering an engine air cleaner; the method including steps of:
- (a) directing air through air deflection vanes of a vane structure of the precleaner at a first flow rate; and
 - (b) increasing air flow from the first flow rate to a second, higher, flow rate while adjusting configuration of selected vanes in the vane structure by deforming flexible portions of the vanes toward a downstream direction in response to the second, higher, flow rate.
15. (Currently Amended) A method of manufacturing a vane structure arrangement of a precleaner; the method including steps of:
- (a) injecting a first material into a mold arrangement, to form a support structure; and,
 - (b) injecting a second moldable material, into contact with the first material, to form flexible vane portions configured to deflect toward a downstream direction in response to a sufficient air flow rate increase through the vane structure arrangement of the precleaner.